

Chicago, USA earth

# THE EARTH-I CONSTELLATION

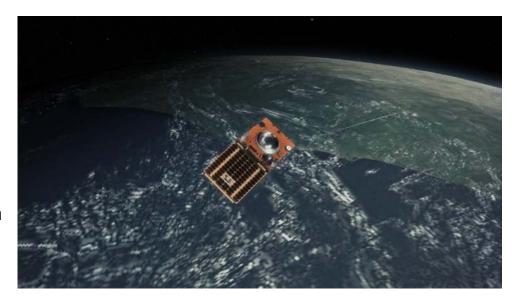






Earth-i is launching a constellation of small satellites based on an SSTL platform:

- 1 meter native resolution images
- 1 meter native resolution video (up to 50 fps)
- Re-sample / super-resolution to approx. 60cm



#### THE EARTH-I CONSTELLATION







First batch of 5 satellites scheduled to launch in 2020

Future batches will launch at timely intervals.

Batches to operate in different orbital planes offering different acquisition times

Imaging & video opportunities throughout the day and night



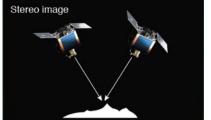
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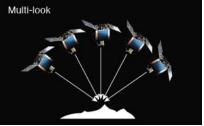




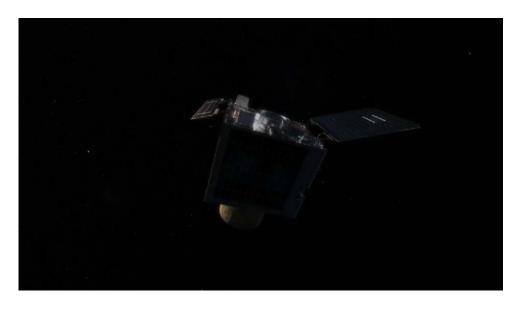














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### EO APPLICATION SNAPSHOTS...





Land Cover Classification



Land Use Classification



Urban Planning



Coastal Planning



Marine Spatial Planning



Ship Detection



Fisheries Monitoring



Piracy



Oil Spill Monitoring



Burn Scar Mapping



Wetland Mapping



Mangrove Mapping



Drought



Desertification



Locusts



Earthquakes



Landslides



Fluvial Floods



Forestry Inventory



Deforestation



Afforestation



Forest Fires



Forest Pest and Disease Monitoring



Hydrocarbon Exploration



Subsidence



Population Density



Monitoring Ports





Snow Pack Monitoring



Snow-Water Equivalent Determination



Hurricane Impact Mapping



Shallow Water Bathymetry



Soil Chemistry



Mining



Ground Water Identification



Ground Water Flooding Susceptibility



Algal Blooms



Sea Surface Temperature



Sea Surface Roughness



Ocean Salinity



Ocean Colour and Chlorophyll



Permafrost Monitoring



Sediment Transport



Invasive Species Monitoring



Agricultural Insurance Monitoring



Asset Management



Route Planning



Illicit Crop Monitoring



3D modelling



Media



Refugee Camp Assessments



Border Control



Famine Early Warning



Business Analytics



Evacuation Planning

Chicago, USA earth

Credits: DLR



# CLOUD REMOVAL USING SATELLITE VIDEO



New Delhi Airport, 2018



# ML & AI FOR ADVANCED DATA INTERPRETATION



Application of machine learning and AI to the large quantities of data created is the ultimate game-changer



# MINE TO MARKET

